

INTERNATIONAL SEARCH REPORT

International Application No

PCT/IB 02/05574

A. CLASSIFICATION OF SUBJECT MATTER
IPC 7 G09G3/28

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC 7 G09G

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the International search (name of data base and, where practical, search terms used)

EPO-Internal

C. DOCUMENTS CONSIDERED TO BE RELEVANT

| Category * | Citation of document, with indication, where appropriate, of the relevant passages | Relevant to claim No. |
|------------|---|----------------------------------|
| Y | US 5 808 420 A (MORIZOT GERARD ET AL) 15 September 1998 (1998-09-15) column 4, line 1-36; figures 8-12 --- | 1-4, 6-8, 14-17, 19-21, 29 |
| Y | HOROWITZ AND W HILL P: "THE ART OF ELECTRONICS", ART OF ELECTRONICS, CAMBRIDGE, CAMBRIDGE UNIVERSITY PRESS, GB, PAGE(S) 355-377 XP002128341 page 355, paragraph 16.9 -page 358 --- | 1-4, 6-8, 14-17, 19-21, 29 |
| Y | US 4 866 349 A (WEBER LARRY F ET AL) 12 September 1989 (1989-09-12) column 9, line 63 -column 11, line 63; figures 5,7; table 1 --- -/-- | 1-4, 6-8, 14-17, 19-21, 29 |

☒ Further documents are listed in the continuation of box C.

☒ Patent family members are listed in annex.

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Date of the actual completion of the international search

6 March 2003

Date of mailing of the international search report

12/03/2003

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| C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT | | |
|--|--|-----------------------|
| Category ° | Citation of document, with indication, where appropriate, of the relevant passages | Relevant to claim No. |
| A | US 6 011 355 A (NAGAI TAKAYOSHI) 4 January 2000 (2000-01-04) cited in the application the whole document ----- | 1-29 |

INTERNATIONAL SEARCH REPORT

Information on patent family members

International Application No

PCT/IB 02/05574

| Patent document cited in search report | | Publication date | Patent family member(s) | Publication date |
|---|---|---------------------|----------------------------|---------------------|
| US 5808420 | A | 15-09-1998 | DE 4321945 A1 | 12-01-1995 |
| | | | CN 1125993 A | 03-07-1996 |
| | | | DE 59406845 D1 | 08-10-1998 |
| | | | WO 9501627 A1 | 12-01-1995 |
| | | | EP 0706703 A1 | 17-04-1996 |
| | | | ES 2123806 T3 | 16-01-1999 |
| | | | JP 8512140 T | 17-12-1996 |
| US 4866349 | A | 12-09-1989 | CA 1306815 A1 | 25-08-1992 |
| | | | DE 3752035 D1 | 24-04-1997 |
| | | | DE 3752035 T2 | 16-10-1997 |
| | | | DE 3788766 D1 | 24-02-1994 |
| | | | DE 3788766 T2 | 19-05-1994 |
| | | | EP 0261584 A2 | 30-03-1988 |
| | | | EP 0548051 A2 | 23-06-1993 |
| | | | JP 2801907 B2 | 21-09-1998 |
| | | | JP 9325732 A | 16-12-1997 |
| | | | JP 2866073 B2 | 08-03-1999 |
| | | | JP 9325733 A | 16-12-1997 |
| | | | JP 2866074 B2 | 08-03-1999 |
| | | | JP 9325734 A | 16-12-1997 |
| | | | JP 2801908 B2 | 21-09-1998 |
| | | | JP 10011019 A | 16-01-1998 |
| | | | JP 7109542 B | 22-11-1995 |
| | | | JP 63101897 A | 06-05-1988 |
| | | | JP 3117680 B2 | 18-12-2000 |
| | | | JP 11242458 A | 07-09-1999 |
| | | | US 5081400 A | 14-01-1992 |
| US 6011355 | A | 04-01-2000 | JP 11085099 A | 30-03-1999 |